

MATERIAL SAFETY DATA SHEET

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SECTION I

MANUFACTURER'S NAME BANDINI FERTILIZER COMPANY		EMERGENCY TELEPHONE NO. CHEMTREC (800) 424-9300 MANUFACTURER (213) 263-7391
ADDRESS (Number, Street, City, State and Zip Code) 4139 BANDINI BLVD., LOS ANGELES, CA 90023		
CHEMICAL NAME AND SYNONYMS SEE SECTION II	TRADE NAME AND SYNONYMS 15-15-15 (TRIPLE FIFTEEN)	
CHEMICAL FAMILY 100% INORGANIC SALTS	CHEMICAL FORMULA N/A	
HAZARD CLASS NON-HAZARDOUS	IDENTIFICATION NO. NONE	PLACARD/LABEL REQUIRED NONE

SECTION II - HAZARDOUS INGREDIENTS

TYPICAL ANALYSIS		
	<u>WT. %</u>	<u>CAS #</u>
TOTAL NITROGEN (N).....		15.00 7783-
20-2		
9.30% AMMONIACAL N (DERIVED FROM AMMONIA SULFATE)		
5.70% NITRATE N (DERIVED FROM NITRIC PHOSPHATE & AMMONIUM NITRATE)		
AVAILABLE PHOSPHORIC ACID (P ₂ O ₅) (DERIVED FROM AMMONIUM PHOSPHATE)....	15.00	6484-52-2
SOLUBLE POTASH (K ₂ O) (DERIVED FROM MURIATE OF POTASH).....	15.00	7783-28-0
CALCIUM (Ca).....		3.20 N/A
SULFUR (S) (DERIVED FROM AMMONIA SULFATE).....		2.70 7783-
20-2		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.) <div style="text-align: center;">N/A</div>	SPECIFIC GRAVITY (H₂O=1) <div style="text-align: center;">N/A</div>
VAPOR PRESSURE (mmHg.) <div style="text-align: center;">N/A</div>	PERCENT VOLATILE BY VOLUME (%) <div style="text-align: center;">N/A</div>
VAPOR DENSITY (AIR = 1) <div style="text-align: center;">N/A</div>	EVAPORATION RATE (_____ = 1) <div style="text-align: center;">N/A</div>
SOLUBILITY IN WATER <div style="text-align: center;">APPRECIABLE</div>	
APPEARANCE AND ODOR <div style="text-align: center;">GRAY GRANULES</div>	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) <div style="text-align: center;">NON FLAMMABLE</div>	FLAMMABLE <div style="text-align: center;">LEI N/A</div>	LIMITS <div style="text-align: center;">UEI N/A</div>
EXTINGUISHING MEDIA USE SUITABLE AGENT FOR SURROUNDING FIRE USE WATER.		
SPECIAL FIRE FIGHTING PROCEDURES USE FLOODING AMOUNTS OF WATER IN EARLY STAGE OF FIRE. USE APPROVED SELF-CONTAINED BREATHING APPARATUS FOR FIRE FIGHTERS.		
UNUSUAL FIRE AND EXPLOSION HAZARDS ORGANIC & OXIDIZABLE MATERIALS CAN SENSITIZE DRY AMMONIUM NITRATE TO EXPLODABLE STATE; CAN DETONATE IF HEATED UNDER CONFINEMENT WITH HIGH PRESSURE. TOXIC GASES WILL FORM UPON HEATING TO DECOMPOSING TEMPERATURES. OXIDE OF NITROGEN, PHOSPHOROUS & AMMONIA WILL FORM.		

15-15-15 (TRIPLE FIFTEEN)

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

AS A NUISANCE DUST: 10 Mg/M³ PEL-ACGIH -1992

EFFECTS OF OVEREXPOSURE

PROLONGED CONTACT MAYBE MILDLY TO MODERATELY IRRITATING TO SKIN, EYES AND RESPIRATORY MUCOUS MEMBRANES. IF INGESTED MAYBE SLIGHTLY TOXIC DUE TO NITRATES & AMMONIA PRESENT. OXIDES OF NITROGEN ARE TOXIC.

EMERGENCY AND FIRST AID PROCEDURES

SKIN - WASH WITH SOAP & WATER. EYES - WASH FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES

INGESTION - GIVE MILK OR ACTIVATED CHARCOAL TO DELAY NITRATE ABSORPTION. TAKE PERSON AND PRODUCT CONTAINER TO EMERGENCY TREATMENT CENTER OR HOSPITAL. THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY OSHA OR NTP. (NATIONAL TOXICOLOGY PROGRAM)

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

AVOID HEAT AND EXCESSIVE MOISTURE.

STABLE

X

KEEP AWAY FROM ORGANIC & OXIDIZABLE MATERIALS.

INCOMPATIBILITY (MATERIALS TO AVOID)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

MOISTURE & OVERHEATING

WILL NOT OCCUR

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

CLEAN SPILL IMMEDIATELY, WEAR PROTECTIVE CLOTHING & CHEMICAL GOGGLES FOR EYE PROTECTION. CONTAIN TO PREVENT ENTRY INTO SEWER OR WATER COURSE.

WASTE DISPOSAL METHOD

PLACE CONTAMINATED MATERIAL IN CONTAINERS & DISPOSE OF IN A MANNER CONSISTENT WITH LOCAL, STATE & FEDERAL REGULATIONS. CONTACT LOCAL HEALTH AUTHORITIES FOR APPROVED DISPOSAL OF THIS MATERIAL. RECLAIM MATERIAL IF PRACTICABLE.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

USE NIOSH/MSHA APPROVED RESPIRATOR FOR DUST.

VENTILATION

LOCAL EXHAUST

SPECIAL

OPEN

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

IMPERVIOUS PROTECTIVE TYPE GLOVES

EYE PROTECTION

CHEMICAL SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT

PROTECTIVE CLOTHING SHOULD BE WORN WHEN HANDLING MATERIAL. CHANGE CLOTHES DAILY. BATHE DAILY. WASH CLOTHING SEPARATELY BEFORE REUSE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

AVOID BREATHING DUST. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. AVOID CONTACT WITH EYES AND SKIN. STORE IN DRY, COOL PLACE.

OTHER PRECAUTIONS

CORROSIVE TO COPPER, BRASS AND THEIR ALLOYS.

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PREPARED BY BANDINI FERTILIZER COMPANY BY A. CERA (CHEMIST - IH)